

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously presented) A method for observing the state of internal signals during chip testing, comprising:
 - receiving specific test signals by a plurality of multiplexers in at least one module;
 - combining, by the plurality of multiplexers, test signals received for each test signal group to create a plurality of test signal groups;
 - receiving, by mapping logic, one of said plurality of test signal groups from each one of said plurality of multiplexers; and
 - mapping, by said mapping logic, one of said plurality of test signal groups to any one of a plurality of outputs of said mapping logic to output as a test output group.
2. (Original) The method of claim 1 wherein the at least one module includes a plurality of modules.
3. (Original) The method of claim 2, further comprising:
 - concurrently observing test signals for a plurality of modules.
4. (Original) The method of claim 3 wherein the plurality of modules includes identical modules.
5. (Previously presented) The method of claim 1 further comprising:
 - said mapping logic including a plurality of mapping multiplexers;
 - each one of said plurality of mapping multiplexers receiving said plurality of test signal groups;
 - each one of said plurality of mapping multiplexers generating a different one of said plurality of outputs of said mapping logic; and
 - each one of said plurality of mapping multiplexers selecting one of said plurality of test signal groups to output as a test output group.
6. (Previously presented) The method of claim 1 wherein said mapping logic is byte lane mapping logic.

7. (Canceled)

8. (Previously presented) A system for observing the state of internal signals during chip testing, comprising:

means for receiving specific test signals by a plurality of multiplexers in at least one module; the plurality of multiplexers combining the specific test signals received for each test signal group to create a plurality of test signal groups; mapping logic for receiving one of said plurality of test signal groups from each one of said plurality of multiplexers; and said mapping logic mapping one of said plurality of test signal groups to any one of a plurality of outputs of said mapping logic to output as a test output group.

9. (Original) The system of claim 8 wherein the at least one module includes a plurality of modules.

10. (Original) The system of claim 9, further comprising:

concurrently observing test signals for a plurality of modules.

11. (Original) The system of claim 10 wherein the plurality of modules includes identical modules.

12. (Previously presented) The system of claim 8 further comprising:

said mapping logic including a plurality of mapping multiplexers; each one of said plurality of mapping multiplexers receiving said plurality of test signal groups; each one of said plurality of mapping multiplexers generating a different one of said plurality of outputs of said mapping logic; and each one of said plurality of mapping multiplexers selecting one of said plurality of test signal groups to output as a test output group.

13. (Previously presented) The system of claim 8 wherein the mapping logic is byte lane mapping logic.

14. (Previously presented) The method according to claim 1, further comprising:

mapping, by said mapping logic, a first one of said plurality of test signal groups, which was received from a first one of said plurality of multiplexers, to a first one of said plurality of outputs of said mapping logic to output as a first test output group;

mapping, by said mapping logic, a second one of said plurality of test signal groups, which was received from a second one of said plurality of multiplexers, to a second one of said plurality of outputs of said mapping logic to output as a second test output group; and

 said first one of said plurality of test signal groups and said second one of said plurality of test signal groups being a same signal type of signal.

15. (Previously presented) The system according to claim 8, further comprising:

 said mapping logic mapping a first one of said plurality of test signal groups, which was received from a first one of said plurality of multiplexers, to a first one of said plurality of outputs of said mapping logic to output as a first test output group;

 said mapping logic mapping a second one of said plurality of test signal groups, which was received from a second one of said plurality of multiplexers, to a second one of said plurality of outputs of said mapping logic to output as a second test output group; and

 said first one of said plurality of test signal groups and said second one of said plurality of test signal groups being a same signal type of signal.